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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,516	02/05/2004	Trent A. Shidaker	WUR 50907/US/2	5676
7590	06/22/2006		EXAMINER	
Patent Counsel Huntsman Polyurethanes 10003 Woodloch Forest Drive The Woodlands, TX 77380			COONEY, JOHN M	
			ART UNIT	PAPER NUMBER
			1711	

DATE MAILED: 06/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/772,516	SHIDAKER ET AL.
	Examiner	Art Unit
	John m. Cooney	1711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 June 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. 20060619.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6-2-06 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bodnar et al.(5,143,945).

Bodnar et al. discloses reaction systems useful in molded foam applications prepared from aromatic isocyanate materials, polyols of weights and functionalities inclusive of those claimed and being derived from the isocyanate reactant compounds defined by the claims, water and carboxylic acids as blowing agents, and other additives, auxiliaries, and reactants(see column 3 lines 14-37 & 60 et seq., column 4 lines 1-28 & 66 et seq., column 5 lines 39-45 & 66 et seq., column 6 lines 1-4 & 43-49, and the entire document).

Bodnar et al. differs from applicants' claims in that it is not particularly limited to applicants' recited selections of active hydrogen containing derived polyols of the equivalent weights as claimed. However, Bodnar et al. is clear in the particular suitability of the members, ammonia, ethylene diamine, trimethylol propane, and ethylene glycol, in forming the polyols of their invention, and the suitability of the molecular weights and functionalities necessary to meet applicants' claimed hydroxyl equivalent values in forming the polyols of their invention. Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the suitably employable active hydrogen containing materials disclosed by Bodnar et al. within the preparations of Bodnar et al.'s own teaching for the purpose of providing their isocyanate reactive urethane forming effect in order to arrive at the products and processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

The following was asset forth previously and is maintained herein:

Applicants' arguments have been considered but rejection is maintained as proper for the reasons set forth, again, above. Motivation to operate within the teachings of Bodnar et al. for the purposes of imparting their result intended effect is maintained to be properly established. It has long been held that where the general conditions of the claims are disclosed in the prior art, discovering the optimal or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233; *In re Reese* 129 USPQ 402. Further, a *prima facie* case of obviousness has been held to exist where the proportions of a reference are close enough to those of the claims to

lead to an expectation of similar properties. *Titanium Metals v Banner* 227 USPQ 773. (**see also MPEP 2144.05 I**) Similarly, it has been held that discovering the optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272,205 USPQ 215 (CCPA 1980).

Applicants' latest arguments have been considered, but rejection is maintained for the reasons set forth above. Applicants' arguments relate to elements not required by the claims. Claims 1-6 and 16-20 do not recite the transitional language "consisting of" and are not limited in the manner argued by applicants. Claims 7-15 are not limited by the recited transitional language "consisting of" because the claims are open by the introductory transitional language "A reaction system comprising". Further, the language "consisting of" only relates to and limits the "isocyanate-reactive foaming agent" to exclusion of additional "isocyanate-reactive foaming agents". Physical blowing agents such as the halocarbons of Bodnar et al. are not excluded by this claim language. None of the claims recite the foaming agents of the systems to be "foaming agents consisting solely of water and carboxylic acid" so as to exclude any and all other foaming/blowing agents.

Further, even if exclusion of other blowing agents was made evident in the claims, then rejection would not be overcome. All disclosures of the prior art, including unpreferred or auxiliary embodiments, must be considered in determining obviousness. *In re Mills*, 176 USPQ; *In re Lamberti*, 192 USPQ 278; *In re Boe*, 148 USPQ 507, and it has been held that omission of an element with consequent loss of function is obvious. *In re Kuehl* 177 USPQ 250; *In re Wilson* 153 USPQ 740. Also, it has been held that omission of an element and its function in a combination where the remaining elements perform the same function as before involves only routine skill in the art. *In re Karlson*, 136 USPQ 184.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JOHN M. COONEY, JR.
PRIMARY EXAMINER
Group 1700